

AP-VP500N™

Video Phone

High Performance BcN Video Terminal Solution



Product Overview

AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

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MENU Key

Product Overview

AP-VP500N Video Phone

- IP based Video Phone Solution
- VoD (Video on Demand) Service
- IPTV Service
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

Product Highlights

AP-VP500N Video Phone

**Video Conferencing
& V²oIP Telephony**

**A/V Broadcasting, VoD,
IPTV service**

**Megapixel HD Camera Sensor
12.1 Inch LCD Display
Menu KEY Control**

**Excellent Voice Quality
G.723/G.729/G.711**

**High Performance RISC CPU
& Programmable DSPs**

**USB Interface for Hard Disk,
Flash Memory, Keyboard, Mouse**

**High-quality Image
VGA , 30fps
64Kbps to 2Mbps
HD(720P) Display**

**APOS™ Technology
Multimedia Network Protocol**

**State-of-art Signaling
H.323, SIP Dual Stack**

**IP based Network Protocol
& Video/Voice Traffic QoS**

**Broadband IP Networking
With dual 10/100Mbps ethernet**

**High-end Video Codec
H.263, MPEG-4, H.264, JPEG**

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Multimedia Service

AP-VP500N Video Phone



- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS : Element Management System

Benefits and Features

AP-VP500N Video Phone

- 12.1 Inch LCD Display, Built-in Megapixel HD Camera Sensor
- HD (720P) Display, HD OSD Design
- Internal High Performance Speaker System
- Enhanced Acoustic Echo Cancellation
- External Video Interface
 - Composite (RCA) Video In/Out, S-Video Out, Component Out
 - Audio (RCA) In/Out
- High-performance Video Codec Support
 - H.263, MPEG-4, JPEG, and H.264
- Video Conference Call Support (AddPac External MCU)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
- High-end Error Resilient Against Various Packet Error

Hardware Specification

AP-VP500N Video Phone

RISC
CPU

Video
DSPs

- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- Powerful Video Interface
 - RCA Video Input/Output, S-Video Output Interface, Component (720P) Video Output Interface
- High quality Audio and Voice Interface
 - Stereo Audio Input Connector
 - Stereo Audio Output Connector
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- USB Interface
 - USB 1.0 Master Interface for USB HDD, USB Flash Memory, USB Keyboard, USB Mouse
- Remote Controller
- FXO PSTN Backup

Hardware Specification

AP-VP500N Video Phone

RISC
CPU

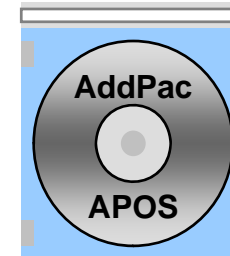
Video
DSPs

- HD Video Camera Sensor
 - CMOS 720P Wide Dynamic Range(WDR) HD Image Sensor
 - Output Formats : YUV, separated and combined RAW
 - Image Size : WXGA(1280x480), HD 720P(1280x720), WVGA(752x480),VGA(640x480), CIF(352x288), QVGA(320x240)
 - 1/3 Inch One(1) Megapixel Image Sensor
 - Automatic Exposure/Gain
 - Horizontal and Vertical Windowing Capability
 - Auto White Balance Control
 - Aperture/Gamma Correction
 - 50/60Hz Flicker Cancellation
 - Defective Pixel Correction

Software Service

AP-VP500N Video Phone

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- Programmable Video, Audio, and Voice Services
 - Video Codes, Audio, and Voice Codec
- Firmware Upgradeable DSP Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features



Video Service and Features

AP-VP500N Video Phone

- Various Video Networking Interface
 - Composite (RCA), S-Video, Component(Y, Cr, Cb)
- High-performance Video Codec Support
 - H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480)
- Up to 30fps with VGA Resolution(MPEG-4)
- 64Kbps to 2Mbps Operating Video Traffic Bandwidth
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error

Audio & Voice Service and Features

AP-VP500N Video Phone

- **Audio & Voice Networking Interface**
 - Audio Input/Output Port (2 x 3.5mm Stereo Female Connector)
(Mic/Line In, Line Out (Head Phone))
- **VoIP based Signaling Protocol Support**
 - H.323, SIP Multiple Signaling Protocol Stack
- **High-performance Audio & Voice Codec Support**
 - Head Set : G.723, G.729, G.726, G.711, etc
- **Enhanced QoS Management Features for Voice Traffics**

Network Service and Features

AP-VP500N Video Phone

Basic Network Protocols

- ARP, IPv4, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD

Routing Protocol

- IPv4 : Static
- IPv6 : Static

Service Protocol

- FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
- CDP (Cisco Discovery Protocol)
- DNS Resolver , DDNS(nsupdate)
- Bridge
- Syslog
- IPv4/IPv6 policy control (QoS)
- VPDN (Virtual Private Dial-up Network : L2TP Server)

Network Service and Features

AP-VP500N Video Phone

IPv4/IPv6 Interworking

- NAT/PAT for IPv4
- IP connect (formerly ip-share) and device cascade for IPv4
- IP/IP, IP/GRE tunneling
- NAT-PT
- 6to4, Autoconfig tunneling

IPv4 Address Configuration

- Fixed (Static)
- DHCP
- PPPoE

IPv6 Address Configuration

- Fixed (Static)
- EUI-64
- Autoconfig (Neighbor Advertisement and Solicitation)

Network Service and Features

AP-VP500N Video Phone

Miscellaneous

- Cisco Style CLI
- Standard & Extended IPv4/IPv6 Access List
- Multi-level User Account Management
- IP accounting
- fsh (Embedded file system shell)
- STUN Client



Network Service and Features

AP-VP500N Video Phone

SNMP MIBs

- MIB-II
- RMON MIBs (Statistics, History, Alarm, Hosts Group)
- RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
- RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
- RFC2452 IP Version 6 Management Information Base for the Transmission Control Protocol
- RFC2454 IP Version 6 Management Information Base for the User Datagram Protocol
- AddPac Enterprise MIBs
- etc

VoIP Signaling

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SIP Protocol

- IPv4, IPv6 Address Support (Current)

H.323 Protocol

- IPv4 Support (Current), IPv6 Address (Future)



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OSD Software Features

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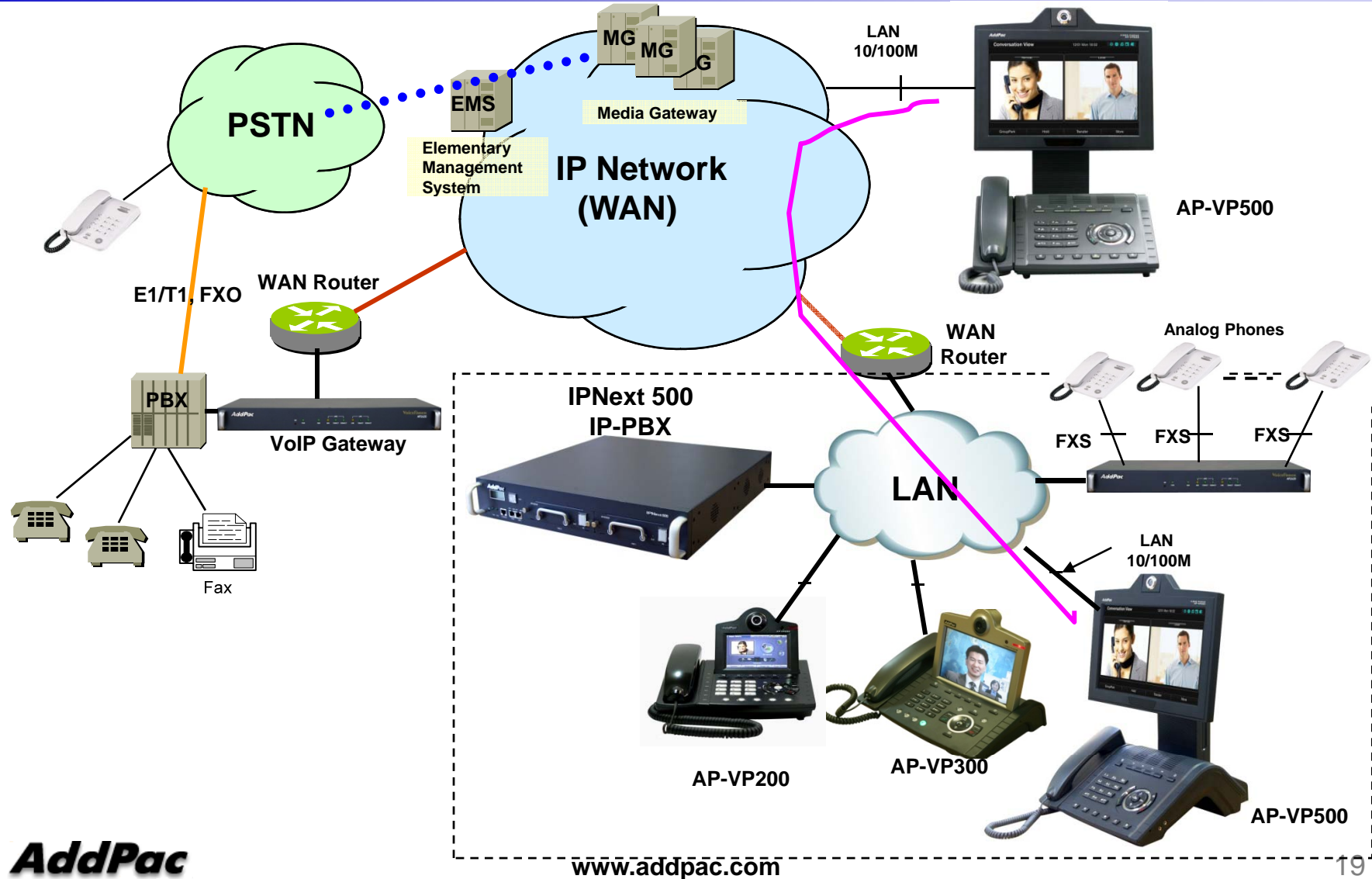
Application Area

- IP-PBX Video Terminal (SIP, H.323, etc)
- Audio/Video Real-time Broadcasting
- Video on Demand Application
- IPTV Application for Enterprise
- Video Telephony
- Video Conference



Standard IP-PBX Application

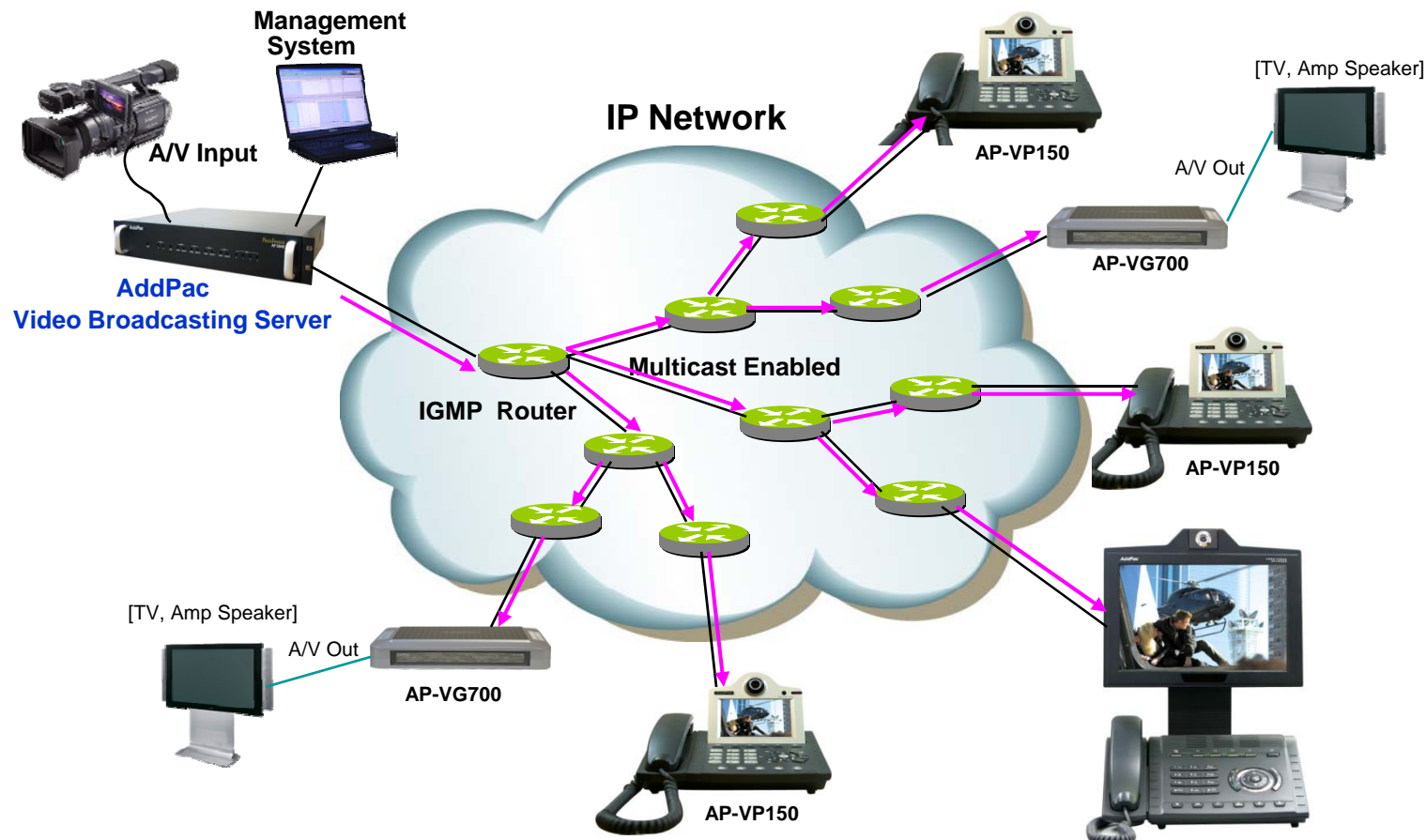
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Audio/Video Real-time Broadcasting

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**Audio and Video Broadcasting Service via
Multicasting IP Network**
(Video, Audio/Voice, and more...)



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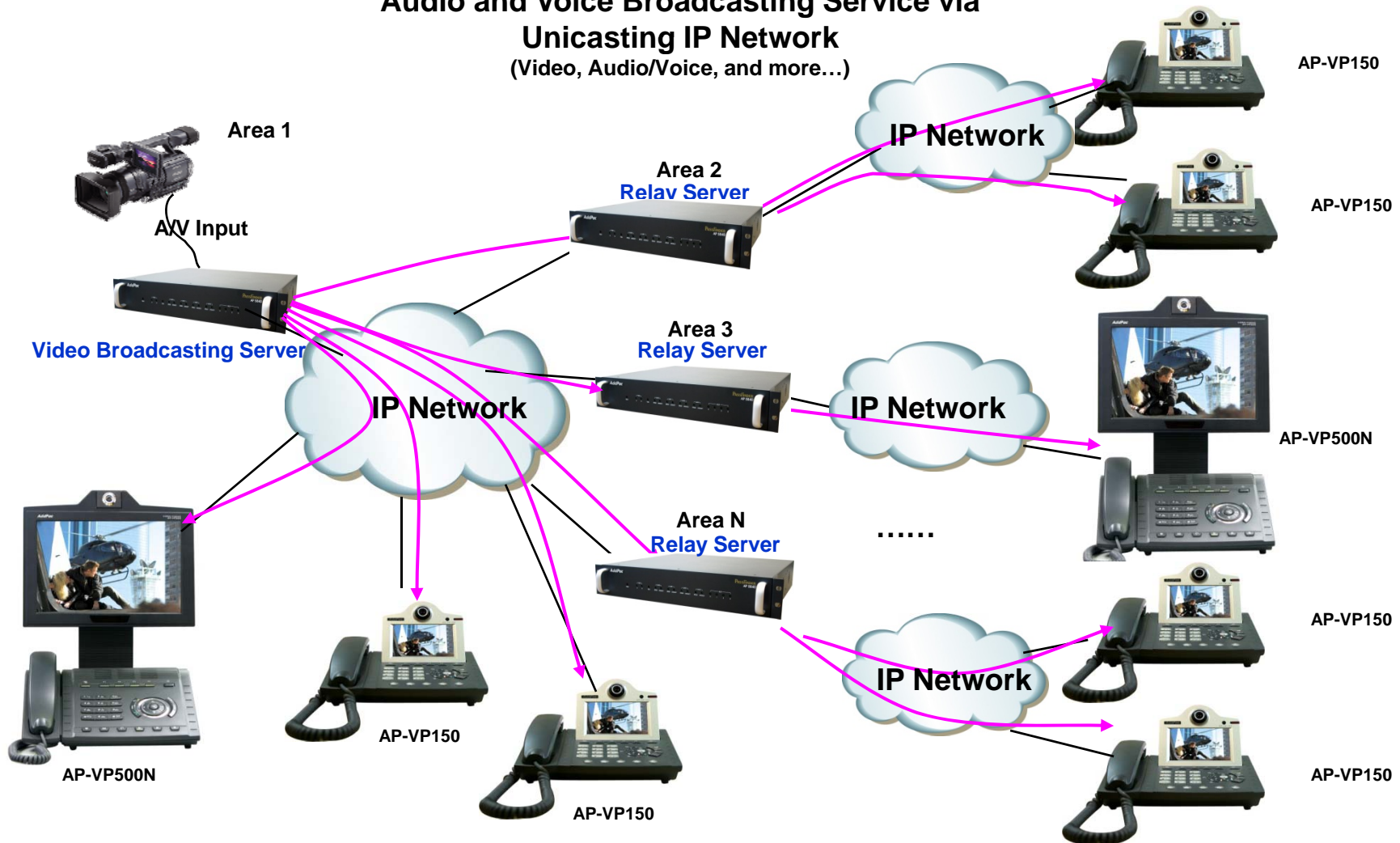
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Audio/Video Real-time Broadcasting

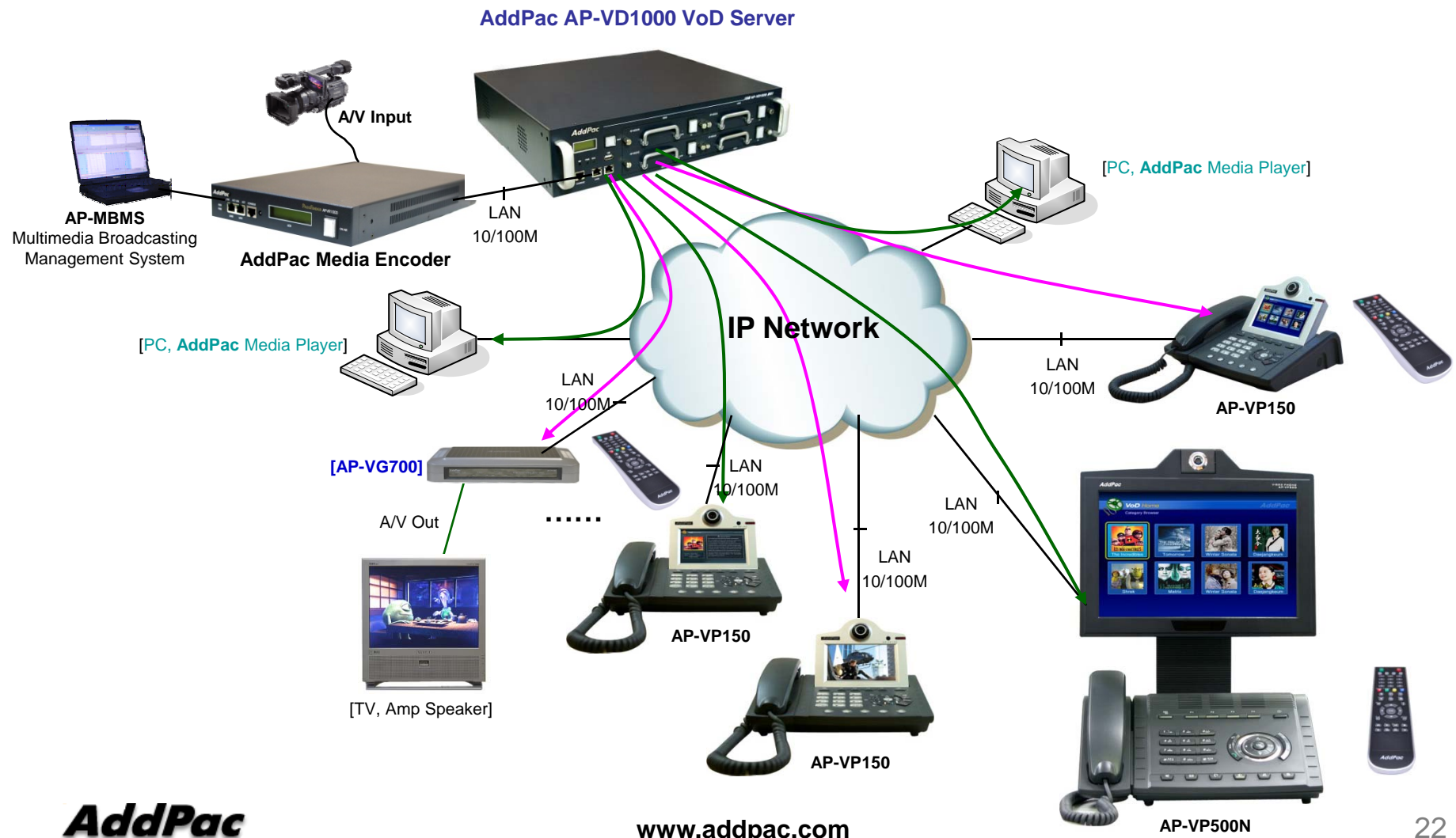
AP-VP500N Video Phone

Audio and Voice Broadcasting Service via
Unicasting IP Network
(Video, Audio/Voice, and more...)



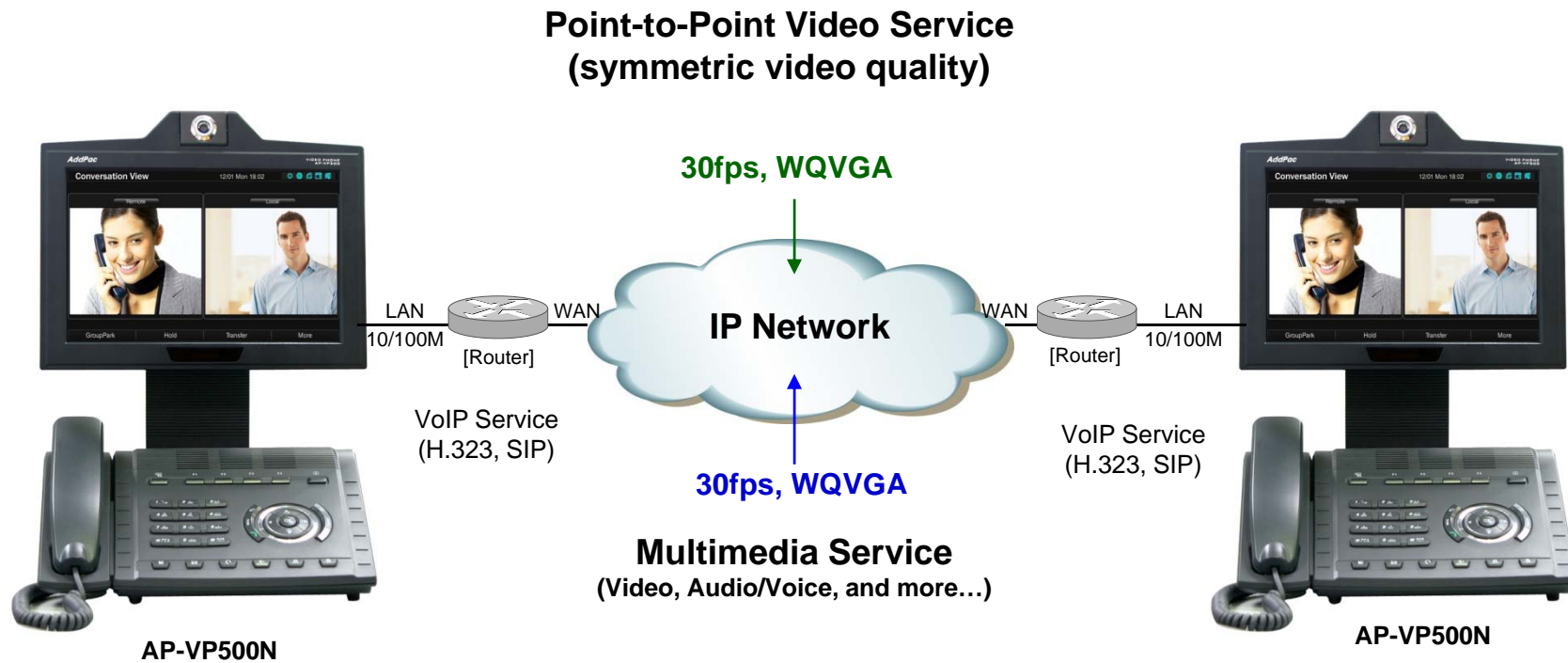
Video on Demand Service

AP-VP500N Video Phone



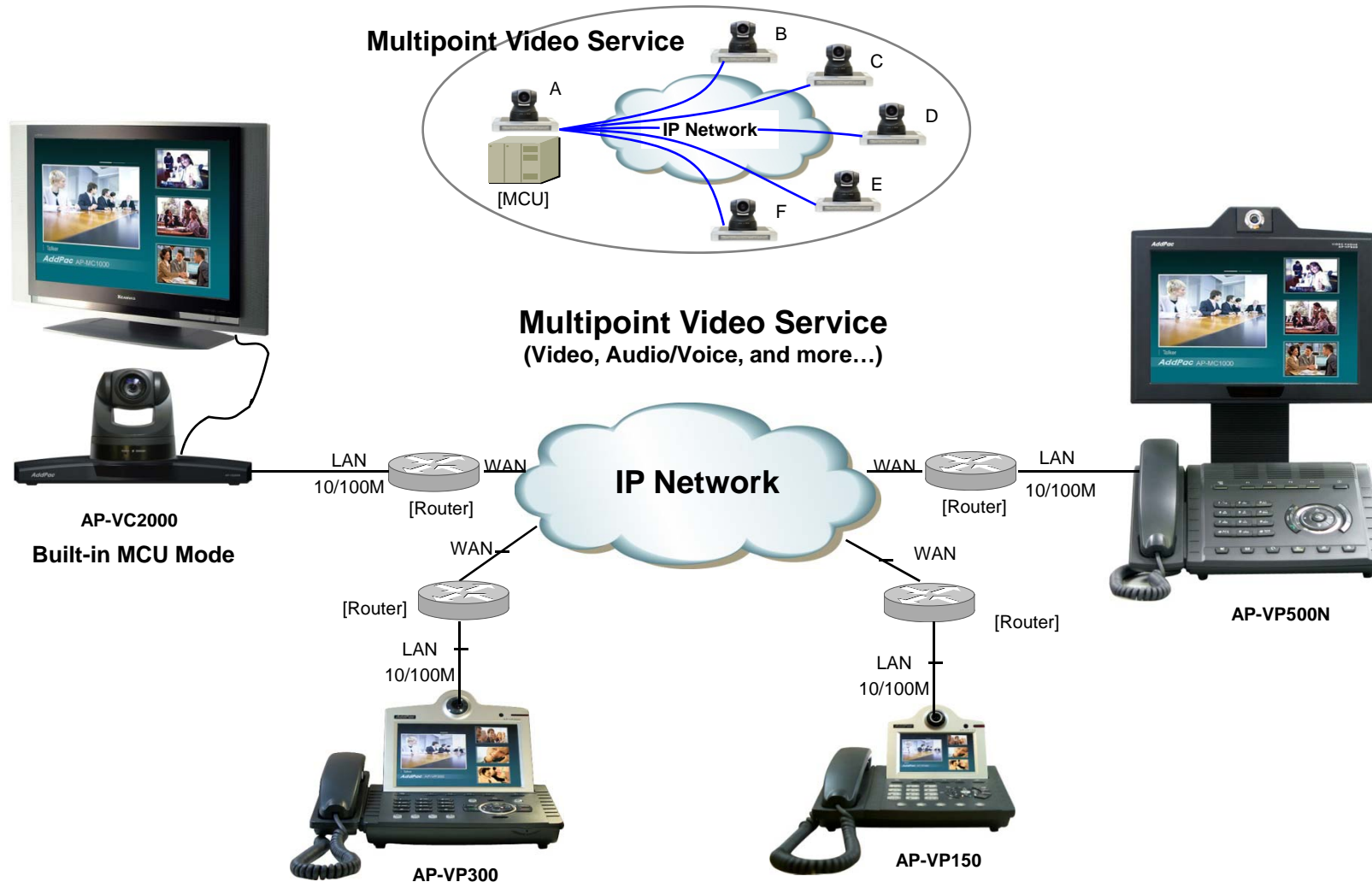
Video Telephony Application

AP-VP500N Video Phone



Video Conference

AP-VP500N Video Phone



Ordering Information

- **AP-VP500N Video Phone Hardware**
 - AP-VP500N Video Phone Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 12.1 Inch LCD, Built In HD Camera Sensor, Remote Controller
 - External Video RCA Input/Output, S-Video Out, Component Out and 3.5mm Audio Input/Output
 - 2-ports 10/100Mbps Fast Ethernet
 - 1-Port USB Interface (Master Mode)
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-VP500N**
- **Including 1 Year Hardware Warranty**
- **Product Documents**
 - Install and Operation Guide (PDF)
- **Pricing**
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com

Video Phone Series

Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail : sales@addpac.com